

**Amendments to the Claims:**

This listing of claims will replace all prior versions, and listings, of claims in the application:

**Listing of Claims:**

1. (Currently Amended) A pressure enclosure, comprising:  
a pressure ~~chamber~~body having an opening;  
a first member coupled to the pressure ~~chamber~~body in a position over the opening;  
a second member positioned between the pressure ~~chamber~~body and the first member and covering the opening; and  
a load chamber defined by a space between the first and second members, configured such that an operating pressure in the load chamber acting on respective surfaces of the first and second members biases the second member against the pressure ~~chamber~~body over the opening, the load chamber further configured to remain pressurized independent of ~~pressure in the pressure chamber~~operation of the enclosure.
2. (Currently Amended) The pressure enclosure of claim 1 wherein the second member comprises inlet and outlet check valves configured to regulate passage, through the pressure ~~chamber~~body, of a fluid medium to be pressurized.
3. (Original) The pressure enclosure of claim 1 wherein the load chamber is in fluid communication with a source of pressure.
4. (Currently Amended) The pressure enclosure of claim 3 wherein the source of pressure is external to the pressure ~~chamber~~body.
5. (Currently Amended) The pressure enclosure of claim 4 wherein the source of pressure is independent of pressure from the pressure ~~chamber~~body.

6. (Currently Amended, Withdrawn) The pressure enclosure of claim 5 wherein the load chamber is in fluid communication with the pressure ~~chamber~~body.

7. (Currently Amended) The pressure enclosure of claim 1 wherein the load chamber is configured such that a pressure in the load chamber of less than around 75% of a pressure in the pressure ~~chamber~~body is sufficient to bias the second member against the pressure ~~chamber~~body to seal the opening.

8. (Currently Amended) The pressure enclosure of claim 1 further comprising a check valve configured to retain pressure in the load chamber at the operating pressure independent of operation of the enclosure.

9. (Withdrawn) The pressure enclosure of claim 8, wherein the check valve is internal to the pressure enclosure.

10. (Currently Amended, Withdrawn) The pressure enclosure of claim 8, wherein the check valve is configured to pass a selected proportion of the pressure from the pressure ~~chamber~~body into the load chamber.

11. (Currently Amended) A pump, comprising:  
a cylinder having a bore in which a medium ~~may~~can be pressurized;  
a valve body positioned across a first end of the cylinder;  
an end cap coupled to the cylinder and positioned over the valve body such that the valve body is held in position against the cylinder; ~~and~~  
a load chamber defined by a space between the valve body and the end cap, the valve body within the load chamber having a surface area greater than a transverse cross sectional area of the bore of the cylinder, the load chamber configured such that a pressure in the load chamber biases the valve body against the cylinder and forms a static seal therebetween; and;

a check valve arranged to admit pressurized fluid into the load chamber and maintain an operating pressure in the load chamber independent of pressure at an output of the pump.

12. (Original) The pump of claim 11 wherein the surface area of the valve body within the load chamber is at least around 130% of the transverse cross sectional area of the bore of the cylinder.

13. (Original) The pump of claim 11 wherein the load chamber is in fluid communication with a source of pressure.

14. (Original) The pump of claim 13, further comprising a pressure regulation device between the source of pressure and the load chamber.

15. (Withdrawn) The pump of claim 11 wherein the load chamber is in fluid communication with the cylinder.

16. (Currently Amended, Withdrawn) The pump of claim 15, ~~further comprising a~~ wherein the check valve is positioned within the pump, and ~~wherein the load chamber is in fluid communication with the cylinder via the check valve.~~

17-20. (Cancelled)

21. (Currently Amended) A system, comprising:

a pump having a pressure output, and a load chamber defined by a space between first and second elements of the pump and configured to bias a sealing body of the pump against a cylinder of the pump utilizing ~~a~~ an operating pressure lower than about 75% of a pressure at the pressure output;

means for pressurizing the load chamber;

a check valve arranged to maintain the operating pressure in the load chamber during operation of the pump and while the pump is not in operation;

a power source coupled to the pump; and

a tool having an input coupled to the pressure output.

22. (Original) The system of claim 21, further comprising means for regulating the pressurizing means.

23. (Original) The system of claim 21 wherein the pressurizing means comprises a pressure source external to the pump and having an output coupled to the load chamber.

24-27. (Cancelled)

28. (Currently Amended, Withdrawn) A pump, comprising:  
a first member having a cylindrical bore;  
a second member positioned across a first end of the bore;  
a static seal positioned between the first and second members and configured to prevent passage of fluid therebetween;  
a third member positioned opposite the first member, relative to the second member;  
a load chamber positioned between the second and third members and configured to exert a separating bias between the second and third members, thereby biasing the second member against the static seal;  
a passage for transmitting pressurized fluid from an output of the bore to the load chamber; and  
a check valve in the passage between the load chamber and the bore and internal to the pump, configured to trap pressurized fluid within the load chamber and maintain a pressure established in the load chamber independent of operation of the pump.

29. (Withdrawn) The pump of claim 28, further comprising a pressure transmitting member positioned within the load chamber and configured to apply biasing force on the second member in response to pressure in the load chamber.

30. (Withdrawn) The pump of claim 29 wherein the check valve is configured to admit fluid to the load chamber at a selected ratio of a pressure of fluid in the bore.

31. (Currently Amended, Withdrawn) A pump, comprising:  
a cylinder in which a medium may be pressurized;  
a valve body positioned across a first end of the cylinder;  
an end cap coupled to the cylinder and positioned over the valve body such that the valve body is held in position against the cylinder;  
an outlet chamber positioned between the end cap and the valve body to collect pressurized fluid from the cylinder;  
a discharge line coupled to the outlet chamber and configured to transmit pressurized fluid to a region external to the pump;  
a load chamber within the end cap;  
a passageway, internal to the pump, extending between the outlet chamber and the load chamber; and  
a check valve provided in the passageway and configured to maintain a pressure established in the load chamber independent of operation of the pump.

32. (Currently Amended) A pump, comprising:  
a cylinder;  
a valve body positioned across a first end of the cylinder;  
a static seal positioned between the valve body and the cylinder and configured to prevent passage of fluid therebetween;  
an end cap positioned opposite the cylinder, relative to the valve body;

a load chamber positioned between the end cap and the valve body and configured to exert a separating bias between the end cap and valve body, thereby biasing the valve body against the static seal;

a passage for transmitting pressurized fluid from an output of the cylinder to a region outside the pump; and

a pressure source external to the pump and independent of pressure from the cylinder, configured to pressurize the load chamber to a selected operating pressure.

33. (Currently Amended, Withdrawn) A pump, comprising:

a first member having a cylindrical bore;

a second member coupled to the first member over an end of the bore, the second member including first and second bodies, each having a planar face, the planar faces of the first and second bodies being positioned adjacent to each other;

a valve body positioned between the first member and second members;

a static seal between the first member and the ~~second member~~, valve body configured to prevent leakage of pressurized fluid from the cylindrical bore;

a load chamber comprising first and second cavities formed in the planar faces of the first and second bodies, respectively, the load chamber configured such that an operating pressure in the load chamber biases the first body away from the first member and the second body toward the first member, thereby exerting a compressing bias on the static seal;

an annular sealing member positioned within the load chamber and configured to provide a sealing surface for load chamber seals without transmitting biasing force in an axis parallel to an axis of the cylindrical bore;

~~an upper load chamber seal positioned between a wall of the first cavity and the annular sealing member; and~~

~~a lower load chamber seal positioned between a wall of the second cavity and the annular sealing member~~ a check valve arranged to maintain the selected operating pressure in the load chamber while the pump is not in operation.

34. (Withdrawn) The pump of claim 33, further comprising a pressure transmitting passage passing through a portion of the second member and configured to enable fluid communication between the cylindrical bore and the load chamber.

35. (Withdrawn) The pump of claim 34, further comprising a check valve in the pressure transmitting passage, configured to admit pressure from the cylindrical bore to the load chamber, and to hold pressure within the load chamber.

36. (Withdrawn) The pump of claim 33, further comprising a pressure transmitting passage passing through a portion of the second member between a pressure source external to the pump and the load chamber.

37. (New, Withdrawn) The pump of claim 33, further comprising:  
an upper load chamber seal positioned between a wall of the first cavity and the annular sealing member; and  
a lower load chamber seal positioned between a wall of the second cavity and the annular sealing member.

38. (New, Withdrawn) The pump of claim 33, further comprising a channel extending in the second body and configured to place the check valve in fluid communication with the cylindrical bore via the valve body.

39. (New, Withdrawn) The pump of claim 33, further comprising a channel in fluid communication with the load chamber, extending in the first body from outside of the pump, and wherein the load chamber is configured to be pressurized via the channel.

40. (New, Withdrawn) The pressure enclosure of claim 1, further comprising a valve body positioned between the pressure body and the second member.

41. (New) The pump of claim 32 further comprising a check valve arranged to maintain the selected operating pressure in the load chamber while the pump is not in operation.

42. (New) A pump, comprising:  
a cylinder having a bore in which a medium can be pressurized;  
a valve body positioned over a first end of the cylinder;  
an end cap coupled to the cylinder and positioned over the valve body such that the valve body is held in position against the cylinder by the end cap; and  
an annular shaped load chamber encircling a portion of the valve body and defined by a space between the valve body and the end cap, the load chamber being configured such that a pressure in the load chamber biases the valve body against the cylinder to form a static seal between the cylinder and the valve body.

43. (New) The pump of claim 42 wherein the end cap comprises an aperture in which the valve body is positioned, a portion of the valve body being accessible from a side of the end cap opposite the cylinder.

44. (New) The pump of claim 42 wherein an outlet port of the valve body is positioned so as to be accessible from a side of the end cap opposite the cylinder.